

AMENDMENTS TO THE CLAIMS

This Listing of the Claims will replace all prior versions, and listings, of claims in the present Application.

Listing of Claims

1. (Currently amended) A method of treatment of an extracorporeal organ that is a donated transplantation organ and is outside the donor's body or an isolated organ of a patient that is inside or attached to a patient's body but is isolated from the patient's blood supply, said method comprising contacting the extracorporeal organ of a donor or the isolated organ of a patient with a composition including a carbon monoxide-releasing metal carbonyl compound or pharmaceutically acceptable salt thereof and at least one pharmaceutically acceptable carrier ~~wherein the metal carbonyl or pharmaceutically acceptable salt thereof makes available carbon monoxide to limit post-ischemic damage to said extracorporeal organ~~ of a donor or said isolated organ of a patient; wherein the carbon monoxide-releasing metal carbonyl compound is of the formula $M(CO)_x A_y B_z$, where x is at least one, y is at least one, M is a transition metal; each A is a ligand other than CO and is monodentate or polydentate with respect to M and is selected from:

alanine,

arginine,

asparagine,

aspartic acid,

cysteine,

glutamic acid,

glutamine,

glycine,

histidine,

isoleucine,

leucine,

lysine,

methionine,

phenylalanine,

proline,

serine,

threonine,

tryptophan,

tyrosine,

valine,

$[\text{O}(\text{CH}_2\text{COO})_2]^{2-}$, and

$[\text{NH}(\text{CH}_2\text{COO})_2]^{2-}$, and

B is optional and is a ligand other than CO.

2. (Canceled)

3. (Currently amended) A method according to claim 1, wherein said metal carbonyl compound makes CO available by at least one of the following means:

CO derived by dissociation of the metal carbonyl compound is present in the composition in dissolved form;

on contact with a solvent the metal carbonyl compound releases CO;

on contact with a tissue, organ, or cell, the metal carbonyl compound releases CO;

on irradiation, the metal carbonyl compound releases CO.

4. (Currently amended) A method according to claim 1, wherein treatment is of said extracorporeal organ of a donor.

5. (Currently amended) A method according to claim 1, wherein treatment is of said isolated organ of a patient.

6. (Currently amended) A method according to claim 1, wherein the contacting step includes perfusing said organ with said composition.

7.-9. (Canceled)

10. (Currently amended) A method according to claim 1, wherein ~~the metal carbonyl compound~~ has the formula:

$M(CO)_x A_y B_z$, where

M is Fe, Co, Mn, Mo, or Ru. [[,]]

x is at least one,

y is at least one,

z is zero or at least one,

each A is a ligand other than CO and is monodentate or polydentate with respect to M and is selected from:

alanine,

arginine,

asparagine,

aspartic acid,

cysteine,

glutamic acid,

glutamine,

glycine,

histidine,

isoleucine,

leucine,

lysine,

methionine,

phenylalanine,

proline,

serine,

threonine,

tryptophan,

tyrosine,

valine,

$[\text{O}(\text{CH}_2\text{COO})_2]^{2-}$, and

$[\text{NH}(\text{CH}_2\text{COO})_2]^{2-}$, and

B is optional and is a ligand other than CO.

11-15. (Canceled)

16. (Currently amended) A method of ~~treatment of an~~ claim 1, wherein the extracorporeal organ of a donor is treated ~~that is a donated transplantation organ and is outside the donor's body, said method comprising contacting the extracorporeal organ with a composition including a carbon monoxide-releasing metal carbonyl compound or pharmaceutically acceptable salt thereof and at least one pharmaceutically acceptable carrier, at a temperature in the range of 2 to 10 °C, wherein the metal carbonyl makes available carbon monoxide to limit post-ischemic damage of said extracorporeal organ.~~

17. (Currently amended) A method according to claim 16, wherein said metal carbonyl compound makes CO available by at least one of the following means:

CO derived by dissociation of the metal carbonyl compound is present in the composition in dissolved form;

on contact with a solvent, the metal carbonyl compound releases CO;

on contact with a tissue, organ, or cell, the metal carbonyl compound releases CO;

on irradiation, the metal carbonyl compound releases CO.

18. (Currently amended) A method according to claim 16, wherein the contacting step includes perfusing said organ with said composition.

19.-23. (Canceled)

24. (New) The method of claim 16, wherein M is Fe, Co, Mn, Mo, or Ru.

25. (New) The method of claim 10 or 16, wherein M is Fe.

26. (New) The method of claim 10 or 16, wherein M is Ru.

27. (New) The method of claim 10 or 16, wherein M is Mo.